

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1        1. (Original) A method of transcoding image data in a  
2 compressed format comprising the steps of:

3            decoding differential pulse code modulation DC frequency  
4 components of plural image blocks;

5            partitioning the image into a plurality of image cells, each  
6 image cell including a plurality of image blocks;

7            recoding DC frequency components of plural image blocks in  
8 differential pulse code modulated format, said differential pulse  
9 code modulated of said image blocks contained solely within a  
10 corresponding image cell;

11          extracting the Huffman tables from the image data;

12          storing said extracted Huffman tables together with an  
13 indication of an associated image cell in a header for said image  
14 cell;

15          identifying image blocks by a block count; and

16          recoding said identified image blocks into corresponding image  
17 cells.

1        2. (Original) The method of transcoding of claim 1, wherein:  
2            said step of extracting Huffman tables includes

3            detecting any new Huffman tables within said image block,  
4            and

5            storing said detected Huffman table with a define Huffman  
6            table marker in said corresponding image cell.

1        3. (Original) The method of transcoding of claim 1, wherein:  
2            said step of identifying image blocks by a block count  
3            includes

4                   detecting end of block identifiers in said image data,  
5                   and  
6                   assigning sequential numbers to identified image blocks.

1         4. (Original) The transcoding method of claim 1, further  
2 comprising the step of:  
3                   storing a starting address of each recoded image cell.

1         5. (Original) The transcoding method of claim 1, further  
2 comprising the steps of:

3                   performing an image transformation from a source image in said  
4 transcoded format to a destination image including

5                   identifying a next source pixel in the image  
6 transformation,

7                   determining if said next source pixel is in a new image  
8 cell,

9                   if said next source pixel is not in a new image cell,  
10 then performing said image transformation, and

11                  if said next source pixel is in a new image cell, then  
12 decompressing said new image cell and preforming said image  
13 transformation,

14                  until said image transformation is performed on a last source  
15 pixel.

1         6. (Original) The transcoding method of claim 1, further  
2 comprising the steps of:

3                   performing an image transformation from a source image in said  
4 transcoded format to a destination image including

5                   identifying a next source pixel in the image  
6 transformation,

7                   determining if said next source pixel is in a new image  
8 cell,

9           if said next source pixel is not in a new image cell,  
10          then performing said image transformation, and  
11            if said next source pixel is in a new image cell, then  
12          decompressing said new image cell and performing said image  
13          transformation if memory is available to store said  
14          decompressed new image cell, else discarding a prior  
15          decompressed image cell, then decompressing said new image  
16          cell and performing said image transformation, and  
17          until said image transformation is performed on a last source  
18         pixel.